

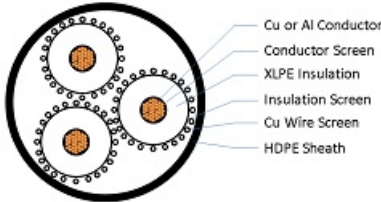
THREE CORE, 12.7/22kV HEAVY DUTY SCREENED UNARMoured

MEDIUM VOLTAGE POWER CABLES

# XLPE INSULATED COPPER WIRE SCREENED AND HDPE SHEATHED CABLE TO AS/NZS 1429.1

## CABLE APPLICATION

**Description**  
Mains enclosed in conduit, buried or underground ducts for industrial plants, buildings and transformers where not subject to mechanical damage.



## CABLE DESIGN

**Conductor**  
Plain Annealed Copper or Aluminium to AS/NZS 1125  
**Insulation**  
X-90 XLPE to AS/NZS 3808  
**Sheath**  
HDPE to AS/NZS 3808

**Note**  
\*\* items can be supplied with compacted conductors to AS/NZS 1125  
\*\* items can be supplied with alternative stranding construction to AS/NZS 1125 - 7/19/37/61 strands  
\*\* overall dimensions may vary due to compacted conductors

## COPPER CONDUCTOR, HIGH FAULT LEVEL

Part Number	Conductor			Cable				Approx. Cable Weight Kg/m	Conductor resistance (Max)		Short Circuit Rating	
	Nom. Area mm <sup>2</sup>	Nom. Dia. mm	Nom. Insulation Thickness mm	Nom. Insulation Dia. mm	Nom. Screen Area mm <sup>2</sup>	Nom. Sheath Thickness mm	Nom. Overall Dia. mm		DC at 20°C Ohm/km	AC at 90°C Ohm/km	Phase Conductor (one sec.) kA	Copper Wire Screen (one sec.) kA
HV19153C3C22HDPE 35**	7.1	5.5	19.9	12	2.7	56.5	3.4	0.524	0.668	5.0	5.1	
HV19178C3C22HDPE 50**	8.2	5.5	21.0	16	2.8	60.4	4.1	0.387	0.494	7.2	7.2	
HV19214C3C22HDPE 70**	9.8	5.5	22.6	23	2.9	64.1	5.1	0.268	0.342	10.0	10.3	
HV37178C3C22HDPE 95**	11.5	5.5	24.3	31	3.0	68.0	6.3	0.193	0.247	13.6	13.5	
HV37203C3C22HDPE 120**	12.9	5.5	25.7	31	3.1	71.2	7.3	0.153	0.196	17.2	13.5	
HV37225C3C22HDPE 150**	14.3	5.5	27.1	31	3.2	75.3	8.4	0.124	0.159	21.5	13.5	
HV37252C3C22HDPE 185**	16.1	5.5	28.9	31	3.3	79.3	9.7	0.0991	0.128	26.5	13.5	
HV61225C3C22HDPE 240**	18.3	5.5	31.1	31	3.5	84.4	11.7	0.0754	0.0981	34.3	13.5	
HV61252C3C22HDPE 300**	20.8	5.5	33.8	31	3.7	90.7	13.9	0.0601	0.0792	42.9	13.5	

12.7/22kV 3C, CU

## ALUMINIUM CONDUCTOR, HIGH FAULT LEVEL

Part Number	Conductor			Cable				Approx. Cable Weight Kg/m	Conductor resistance (Max)		Short Circuit Rating	
	Nom. Area mm <sup>2</sup>	Nom. Dia. mm	Nom. Insulation Thickness mm	Nom. Insulation Dia. mm	Nom. Screen Area mm <sup>2</sup>	Nom. Sheath Thickness mm	Nom. Overall Dia. mm		DC at 20°C Ohm/km	AC at 90°C Ohm/km	Phase Conductor (one sec.) kA	Copper Wire Screen (one sec.) kA
HV19178A3C22HDPE 50**	8.2	5.5	21.0	11	2.8	60.4	3.0	0.641	0.822	4.7	4.3	
HV19214A3C22HDPE 70**	9.8	5.5	22.6	15	2.9	64.1	3.6	0.443	0.568	6.6	6.3	
HV37178A3C22HDPE 95**	11.5	5.5	24.3	21	3.0	68.0	4.2	0.320	0.411	9.0	8.9	
HV37203A3C22HDPE 120**	13.0	5.5	25.7	23	3.1	71.2	4.9	0.253	0.325	11.3	10.3	
HV37225A3C22HDPE 150**	14.3	5.5	27.1	26	3.2	75.3	5.6	0.206	0.265	14.2	10.3	
HV37252A3C22HDPE 185**	16.1	5.5	28.7	31	3.3	79.3	6.2	0.164	0.211	17.5	13.5	
HV61225A3C22HDPE 240**	18.3	5.5	31.1	31	3.5	84.4	7.1	0.125	0.161	22.7	13.5	
HV61252A3C22HDPE 300**	20.8	5.5	33.8	31	3.7	90.7	8.1	0.100	0.130	28.3	13.5	

12.7/22kV 3C, AL

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